# SERVICE MANUAL AND PARTS LIST

# COMET RIDING MOWER

MODEL 304R

MODEL 306R

MODEL 304RD

MODEL 306RD

MODEL 306RDS

## McDONOUGH POWER EQUIPMENT, INC.

McDONOUGH, GA., U. S. A., 30253

# Assembly, Operation, Service Manual and Parts List

### 1. ASSEMBLY:

- A. Remove top and sides from crate.
- B. Support steering shoft from underneoth as steering wheel is installed using two (2) 1/4x1-1/8 roll pins. Be sure shim wosher is between wheel hub and top bearing on steering post. Also that the bottom bearing on steering shaft is in place.
- C. Cut shipping strops and remove mower from crote bottom.
- 2. Service and lubricote engine per instructions in engine manual.
- 3. Front wheel bearings of mowers having pneumatic tires are lubricated using medium cup grease in pressure gun. Units having semi-pneumatic tires must be lubricated by removing wheels and hand repacking. Repeat every 50 hours of operation or more often if dirty service conditions require. Optional procedure for the semi-pneumatic wheels is weekly oiling using machine oil.
- 4. Reor wheel bearings are lubricoted through the Alemite fitting in wheel lug. Use three (3) shots only of medium cup grease in pressure gun. This operation also forces grease from bearings to lubrication ternol gear and pinion. After operation for a few minutes, check geor lubrication by standing mower on end (refer to storage) and removing yellow inspection plugs inside transmission case. Repeat every 50 hours of operation. If wheel is removed, moke sure olemite lug bolt is replaced in proper hole. Recess in hub marks correct location.

### 5. BATTERY INSTALLATION (FOR ELECTRIC STARTER ONLY):

- A. Service bottery occording to instructions supplied with the battery.
- Remove bottery clomping brocket and install bottery under left hand side of seat.
- C. Attoch long bottery lead to positive terminol of bottery. This is the terminol hoving the square hole.
- D. Attach short lead to ground terminal of bottery.
- E. Refer to engine manual for operating instructions of the bottery charging system used.
- Lubricote King Pins with medium cup grease using pressure gun. Repeat every 50 hours of operation or more often if dirty service conditions require.

### 7. TRANSMISSION CASE:

- A. Differential requires 3 shots every 50 hours of operation. Move flexible dust shield to locate fitting.
- B. If disassembled for any reoson, repock, using Lithium bose greose or any grease suitable for automative wheel bearings.
- C. Chain is lubricated by removing yellow plug and pocking with Gulf Flex A Multi-purpose grease or equal. 1 pint is needed for full copacity. Add as needed, check every 50 hours of operation.
- D. Lubricate slide bearings and axle with medium cup grease, every 50 hours of operation or more often if used under very dirty conditions. Cleon thoroughly before greasing.
- E. Hex primory shaft (same as D).
- F. Lubricote all other movoble joints, linkages, etc., every 50 hours of operation or more often if dirty service conditions require, using mochine oil.
- G. Shaft bearings (7) are sealed and lubricated for life.

### 8. CUTTER UNIT:

A. Spindle is ossembled with sealed precision ball bearings and requires infrequent lubrication. Lubricate each season using pressure gun with flexible hose adapter. Use Pure Oil Paco Sponge No. 1 or equal. Avoid over filling under pressure. This will damage bearing seols.

- Height Adjusting Coms Remove spindle guard cover and lubricate cams with medium cup grease every 50 hours of operation or more often if dirty service conditions require.
- C. While cover is off, lubricate other movable joints, linkages, etc., with mochine oil.
- Lubricate all movable joints not covered above such os steering linkoge, tube support, etc., with machine oil every 50 hours or more if dirty service conditions require.
- 10. Inflate tires to 20 lbs.

### 11. STORAGE:

The mower may be set on end for servicing or storage within the following limitations:

- A. For electric starter units, remove battery to prevent acid leakage and subsequent domage.
- B. Model 306 Units must have bumper guards to prevent damage to the gosoline tank, and oil bath oir cleoner must be removed.
- C. Gos tonk must be proctically empty to eliminote fire hazard.
- D. For winter storage, always drain oil and gasoline. Refer to engine manual for proper procedure to follow. Oil or grease any parts of the mower subject to rust or corrosion.

### GENERAL OPERATION:

### A. START ENGINE -

- Moke certain shift handle is in neutral and cutter unit out before ottempting to start.
- Refer to Engine manual for throttle control Instructions for the type used.
- If engine is also equipped with electric storter, refer to engine monual for storting procedure. The storter switch is located to the rear of the bottery.

### B. FORWARD MOTION:

- Disengage clutch and apply broke by depressing pedal with either foot to the end of its travel.
- Move shift lever located on right hand side of seat to the low speed position (No. 1) and slowly release clutch and brake pedal.
- Speeds may now be increosed or decreased without the use of the clutch pedal.
- Never stort by moving shift handle without use of the clutch pedal as the driven disc life will be shortened.
- 5. Always begin forward motion in No. 1 speed position.

### C. REVERSE MOTION:

Follow same procedure as "B" above; however, there is only ane speed in reverse ond shift hondle must be held in reverse position at the end of the slot.

### D. STOPS:

- The mower may be stopped in either forward or reverse motion by depressing clutch and broke pedal with either foot.
- 2. Always return shift handle to neutrol ofter a stop is mode.
- As a sofety precaution, if stops hove to be made going up steep inclines, back down to level ground to re-start.

### E. CUTTER UNIT:

- Cutting height is adjusted by simply changing the position of the lift handle. There are eight (8) different positions ranging between 1 and 4 inches.
- 2. Cutter engagement is occomplished by slowly pulling the cutter handle to the reor until the spring loaded idler takes over. The spindle broke is automatically released or opplied as this handle is shifted from the "in" or "out" position. Cutter engagement or release moy be occomplished at any cutting height with the mower moving or ot rest.

### ADJUSTMENTS:

### A. SEAT POSITION:

Camfartable seat pasition is accamplished by moving the seat to the rear far taller aperators. Make sure the "baunce" is not so severe as to strike the engine, that is, adjust the seat stiffness to accammadate the weight of the aperator.

### **B. MOWER BRAKES:**

There are na adjustments to be made as the massive 9" dia. drums have sufficient wear resistance for adequate life.

### C. CLUTCH

The clutch linkage has been designed so that, with initial factory adjustment, the driven disc wear is accommodated throughout its useful life. Replace disc when warn to 1/32 - 1/16 inch rubber thickness. Da not tamper with linkage if mawer does not puil at this paint. Replace driven disc.

In the event sameane tampers with the factory adjustment, the linkage can be checked as fallows:

- 1. Remave driven disc and install adjusting gage. This is a driven disc with the "as new" radius af 3 inches an half the circumference and a  $2\frac{3}{4}$  inch radius graund an the other half.
- 2. Depress clutch pedal and shift to second speed.
- Adjust clutch rad until the 2¾ inch radius clears driving disc. .005/.010 inch. (Make sure brake bar is in its fully released pasition to the rear of both slats in the transmission case.)
- 4. Rotate gage 180 deg. and fully depress clutch pedal until brakes are applied. Check ta see that the 3 inch radius clears driving disc by 1/32 inch minimum with slide pushed lightly against yake lift. This assures that driven disc will be pulled dawn fram driving disc when clutch is disengaged.

### D. CLUTCH AND BRAKE PEDAL:

If cable stretch is sufficient that there is less than  $\frac{1}{2}$ " between pedal arm and grille, laasen capscrew clamping cable and take up slack. NOTE: Make sure brake bar returns to full released position to rear of both slats in transmission case.

### E. SPINDLE BRAKE:

Maintain 3/8 ta  $\frac{1}{2}$ " overall spring length with brake applied. This adjustment Is made an the left hand side of the cutter unit by loasening ar tightening the 5/16" hex nut found there.

### F. CUTTER DRIVE BELT:

The spring laaded idler maintains praper belt tension throughout the effective belt life.

Adjust main tube when idler pulley causes the belt ta rub together behind the spindle pulley. Main tube adjustment is accamplished as follows:

- 1. Remave seat bracket.
- Shift enough harseshae shims on main tube to front af tube support bracket sa that belt does not rub together.
- 3. Re-assemble.

Make sure brake bar is at end af slat after assembly. Adjust if necessary at clamp an pedal.

Belt replacement is accamplished as follows:

- 1. Remave spindle guard caver and remave belt fram pulley.
- Stand mower on end (refer ta "Starage") with shift handle in neutral.
- Pull belt fram behind drive disc. Reach behind slide and pull clutch rad far maximum driven disc clearance. Rall belt between drive and driven discs. Pull belt between driven disc and belt guide and remave from transmission case.
- 4. Reverse pracedure ta install new belt.

### G. CUTTER SPINDLE REMOVAL:

If it is necessary to remove and re-assemble spindle housing, the housing must be plumbed to the cutter deck to abtain an equal distance between the blade tip and deck. This is accomplished by locating the housing flange correctly to the deck, using the clearance hales for the capscrews for alignment. Tighten securely, using self-lacking nuts.

### H. CUTTER BLADE HEIGHT:

The cutter blade has been factary adjusted far 1 Inch minimum cutting height. After a periad of time, wear in the linkage may require re-adjustment. Carrect pracedure is as fallows — taking all measurements to the same blade tip:

- 1. Park mower on level and even floar ar surface.
- 2. Move lift handle to lawest position.
- 3. Remove spindle guard caver.
- 4. Adjust blade tip cutting edge ta 1½ inch at rear using the setscrews that support the swinging chain arms of the rear suspension. Maintain level blade side ta side as this is adjusted.
- 5. Swing blade tip to front and adjust to 1 inch by shartening ar lengthening timing link that cannects the frant and rear lift arms. Shortening this link ½ turn af the rad end raises front approximately 1/8 inch.

### i. ELECTRICAL - FOR ELECTRICAL STARTER ONLY -

Refer to Engine Manual.

### J. OPTIONAL EQUIPMENT:

Ta increase the usefuliness of your Camet Riding Mower, the following Kits may be obtained as Optianal Equipment:

6-0077 Fender Kit

6-0078 Implement Hitch Kit

6-0079 36" Snaw Plow Kit

6-00B0 Engine Guard Rail Kit

6-0081 Chrame Hub Cap Kit 6-0082 Leaf Mulcher Kit

6-00B6 Back Rest Kit

6-0049 Snaw Chain Kit

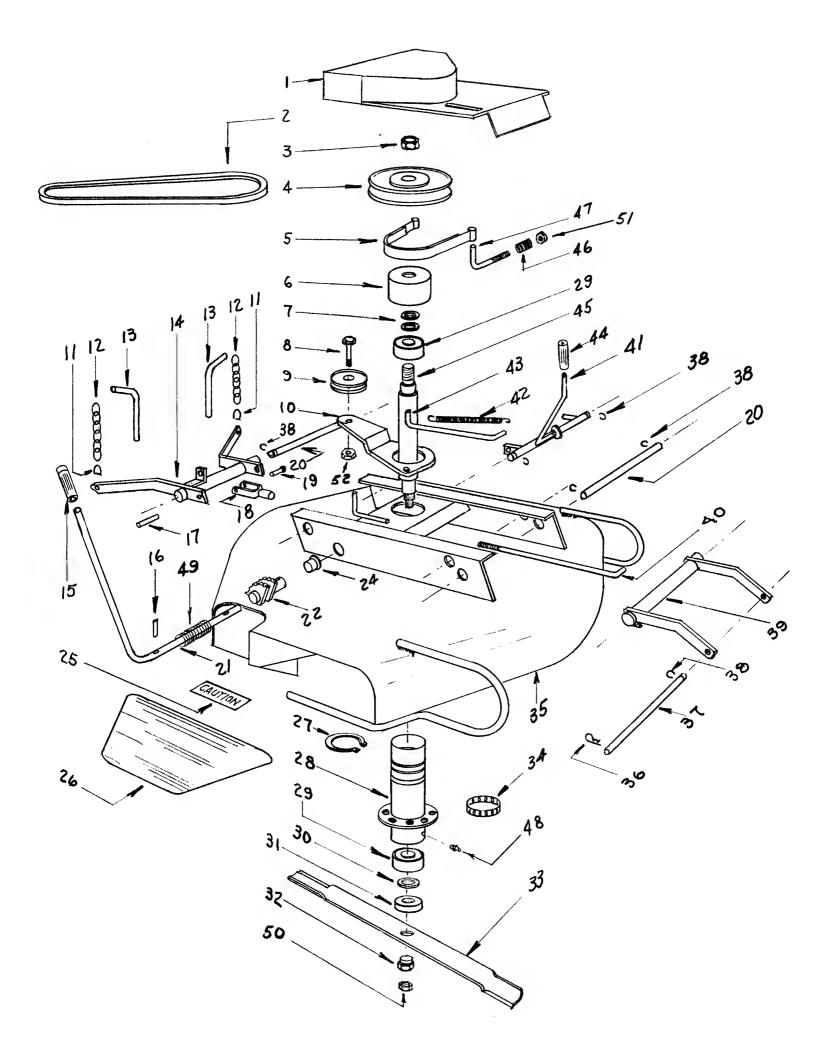
6-0050 Seat Cushian Kit

### **SAFETY PRECAUTIONS:**

- 1. Never attempt to start engine unless shift handle is in neutral and cutter handle is in the "out" position.
- 2. Mount mower from left hand side, opposite the discharge chute.
- 3. For forward motion, always begin movement with shift handle in No. 1 speed position.
- 4. Disengage cutter and stop engine before dismounting.
- 5. Keep hands and feet clear of all sides of the cutter unit. Never attempt to lift or move mower by the cutter unit.
- 6. If it is necessary to stop going up steep inclines, back down to level ground to re-start
- 7. When going down inclines, keep in low speed with clutch and brake pedal out to allow engine to maintain control of speed.

# Spindle, Cutter Unit and Lift

1. 1-8040 Cover 2. 1-0749 Belt 3. 1-0027 Jam Nut 4. 1-0787 Pulley 5. 5-0170 Brake Band Assy. 6. 3-0817 Brake Drum 7. 3-0028 Thrust Washer 8. S-90269 ½-20x1½ Hex Hd. Cap Screw 10. 4-7246 Idler Arm 11. 1-0742 Cold Shut 12. 2-0876 Chain 13. 3-0816 Arm 14. 4-7245 Rear Lift Arm 15. 1-0684 Grip 16. 1-0152 Roll Pin, ¼x1-¾ 17. 1-0737 Roll Pin, ¾x1-¾ 18. 1-0735 Clevis, ¾ 19. 1-0736 Clevis Pin, ¾x1-¼ 19. 1-0736 Clevis Pin, ¾x1-¼ 10. 2-0881 Lift Arm Shaft 20. 2-0881 Lift Arm Shaft 21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 A-0740 Bearing Assy. 25. 1-0416 Caution Decal 26. 1-0763 Deck Pad 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 19. 1-0740 Shoulder Nut 10. 1-0544 Hair Pin 11. 2-0055 Spacer Washer 12. 2-0882 Support Rod 13. 1-0399 Retaining Ring 14. 4-7243 Deck Structure 15. 1-0540 Hair Pin 16. 1-0544 Hair Pin 17. 1-0740 Retaining Ring 18. 1-0741 Tolerance Ring 19. 1-0540 Retaining Ring 29. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 19. 10-0540 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 10. 2-0877 Timing Rod 11. 4-7254 Idler Handle 12. 1-0750 Spring 13. 2-0880 Idler Link 14. 4-7254 Idler Handle 15. 2-07184 Spindle 16. 1-0808 Spring 17. 2-0879 Anchor 18. 1-0817 Alemite Fitting 19. 1-0808 Spring 10. 1-0808 Spring 10. 1-0808 Spring 11. 1-0808 Spring 12. 2-0806 ½-20 Lock Nut 15. 5-90266 ½-20 Lock Nut	item	Part No.	Description	No. Req.
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11. 1-0742 Cold Shut 12. 2-0876 Chain 13. 3-0816 Arm 24. 4-7245 Rear Lift Arm 15. 1-0684 Grip 16. 1-0152 Roll Pin, ½x1-¾ 17. 1-0737 Roll Pin, ⅓x1¼ 28. 1-0735 Clevis, ⅓ 19. 1-0736 Clevis Pin, ⅓x1-⅓ 20. 2-0881 Lift Arm Shaft 21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, R. H. (Not Shown) 24. 5-0009 Bearing Assy. 25. 1-0416 Caution Decal 26. 1-0763 Deck Pad 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 19. 1-0696 Bearing 29. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 36. 1-0546 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 40. 2-0877 Timing Rod 41. 4-7254 Idler Handle 42. 1-0750 Spring 43. 2-0880 Idler Link 44. 1-0681 Grip 45. 2-7184 Spindle 46. 1-0023 Spring 47. 2-0879 Anchor 48. 1-0817 Alemite Fitting 50. S-90278 Jam Nut, 5%-18 51. S-90222 5/16-24 Lock Nut				
12. 2-0876 Chain 2 13. 3-0816 Arm 2 14. 4-7245 Rear Lift Arm 1 15. 1-0684 Grip 1 16. 1-0152 Roll Pin, ½x1-¾ 2 17. 1-0737 Roll Pin, ¾x1-⅓ 2 18. 1-0735 Clevis, ¾ 1 19. 1-0736 Clevis Pin, ¾x1-⅓ 1 20. 2-0881 Lift Arm Shaft 2 21. 2-0878 Lift Handle 1 22. 4-0275 Cam Structure, R. H. 1 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 24. 5-0009 Bearing Assy. 2 25. 1-0416 Caution Decal 1 26. 1-0763 Deck Pad 2 27. 1-0740 Retaining Ring 2 28. 4-0273 Spindle Housing 1 29. 1-0696 Bearing 2 20. 1-0121 Shim Washer 1 31. 2-0055 Spacer Washer 1 32. 2-1001 Shoulder Nut 1 33. 1-8038 Cutter Bar 1 34. 1-0741 Tolerance Ring 1 35. 4-7243 Deck Structure 1 36. 1-0546 Hair Pin 1 37. 2-0882 Support Rod 1 38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90228 Jam Nut, 5%-18 1 51. S-90222 5/16-24 Lock Nut 1				
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15. 1-0684 Grip 16. 1-0152 Roll Pin, ½x1-¾ 17. 1-0737 Roll Pin, ⅓x1-⅓ 18. 1-0735 Clevis, ¾ 19. 1-0736 Clevis Pin, ⅓x1-⅓ 20. 2-0881 Lift Arm Shaft 21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 24. 5-0009 Bearing Assy. 25. 1-0416 Caution Decal 26. 1-0763 Deck Pad 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 29. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 36. 1-0546 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 40. 2-0877 Timing Rod 41. 4-7254 Idler Handle 42. 1-0750 Spring 43. 2-0880 Idler Link 44. 1-0681 Grip 45. 2-7184 Spindle 46. 1-0023 Spring 47. 2-0879 Anchor 48. 1-0817 Alemite Fitting 50. S-90228 Jam Nut, 5⅓-18 51. S-90222 5/16-24 Lock Nut				2
15. 1-0684 Grip 16. 1-0152 Roll Pin, ½x1-¾ 17. 1-0737 Roll Pin, ⅓x1-⅓ 18. 1-0735 Clevis, ¾ 19. 1-0736 Clevis Pin, ⅓x1-⅓ 20. 2-0881 Lift Arm Shaft 21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 24. 5-0009 Bearing Assy. 25. 1-0416 Caution Decal 26. 1-0763 Deck Pad 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 29. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 36. 1-0546 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 40. 2-0877 Timing Rod 41. 4-7254 Idler Handle 42. 1-0750 Spring 43. 2-0880 Idler Link 44. 1-0681 Grip 45. 2-7184 Spindle 46. 1-0023 Spring 47. 2-0879 Anchor 48. 1-0817 Alemite Fitting 50. S-90228 Jam Nut, 5⅓-18 51. S-90222 5/16-24 Lock Nut				2
18. 1-0735 Clevis, \( \frac{3}{8} \) 19. 1-0736 Clevis Pin, \( \frac{3}{8} \) x1-\( \frac{1}{8} \) 20. 2-0881 Lift Arm Shaft 21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 24. 5-0009 Bearing Assy. 2 25. 1-0416 Caution Decal 26. 1-0763 Deck Pad 2 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 29. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 36. 1-0546 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 40. 2-0877 Timing Rod 41. 4-7254 Idler Handle 42. 1-0750 Spring 43. 2-0880 Idler Link 44. 1-0681 Grip 45. 2-7184 Spindle 46. 1-0023 Spring 47. 2-0879 Anchor 48. 1-0817 Alemite Fitting 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 51. S-90222 5/16-24 Lock Nut			_	
18. 1-0735 Clevis, \( \frac{3}{8} \) 19. 1-0736 Clevis Pin, \( \frac{3}{8} \) x1-\( \frac{1}{8} \) 20. 2-0881 Lift Arm Shaft 21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 24. 5-0009 Bearing Assy. 2 25. 1-0416 Caution Decal 26. 1-0763 Deck Pad 2 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 29. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 36. 1-0546 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 40. 2-0877 Timing Rod 41. 4-7254 Idler Handle 42. 1-0750 Spring 43. 2-0880 Idler Link 44. 1-0681 Grip 45. 2-7184 Spindle 46. 1-0023 Spring 47. 2-0879 Anchor 48. 1-0817 Alemite Fitting 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 51. S-90222 5/16-24 Lock Nut				1
18. 1-0735 Clevis, \( \frac{3}{8} \) 19. 1-0736 Clevis Pin, \( \frac{3}{8} \) x1-\( \frac{1}{8} \) 20. 2-0881 Lift Arm Shaft 21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 24. 5-0009 Bearing Assy. 2 25. 1-0416 Caution Decal 26. 1-0763 Deck Pad 2 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 29. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 36. 1-0546 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 40. 2-0877 Timing Rod 41. 4-7254 Idler Handle 42. 1-0750 Spring 43. 2-0880 Idler Link 44. 1-0681 Grip 45. 2-7184 Spindle 46. 1-0023 Spring 47. 2-0879 Anchor 48. 1-0817 Alemite Fitting 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 51. S-90222 5/16-24 Lock Nut			Roll Pin, 1/4x1-3/8	2
19. 1-0736 Clevis Pin, \( \frac{3}{8} \times 1 - 1/8 \) 20. 2-0881 Lift Arm Shaft 21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, L. H. (Not Shown) 124. 5-0009 Bearing Assy. 25. 1-0416 Caution Decal 26. 1-0763 Deck Pad 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 19. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 36. 1-0546 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 10. 2-0877 Timing Rod 11. 4-7254 Idler Handle 12. 1-0750 Spring 13. 2-0880 Idler Link 14. 1-0681 Grip 15. 2-0879 Anchor 16. 1-0817 Alemite Fitting 17. 2-0879 Anchor 18. 1-0817 Alemite Fitting 19. 1-0808 Spring 19. 5-90222 5/16-24 Lock Nut			Roll Pin, 3/8x1 1/4	
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21. 2-0878 Lift Handle 22. 4-0275 Cam Structure, R. H. 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 24. 5-0009 Bearing Assy. 25. 1-0416 Caution Decal 16. 1-0763 Deck Pad 27. 1-0740 Retaining Ring 28. 4-0273 Spindle Housing 19. 1-0696 Bearing 30. 1-0121 Shim Washer 31. 2-0055 Spacer Washer 32. 2-1001 Shoulder Nut 33. 1-8038 Cutter Bar 34. 1-0741 Tolerance Ring 35. 4-7243 Deck Structure 36. 1-0546 Hair Pin 37. 2-0882 Support Rod 38. 1-0739 Retaining Ring 39. 4-7244 Front Lift Arm 40. 2-0877 Timing Rod 41. 4-7254 Idler Handle 42. 1-0750 Spring 43. 2-0880 Idler Link 44. 1-0681 Grip 45. 2-7184 Spindle 46. 1-0023 Spring 47. 2-0879 Anchor 48. 1-0817 Alemite Fitting 50. S-90278 Jam Nut, \( \frac{5}{8}-18\) 51. S-90222 5/16-24 Lock Nut		1-0736		1
22. 4-0275 Cam Structure, R. H. 1 23. 4-0274 Cam Structure, L. H. (Not Shown) 1 24. 5-0009 Bearing Assy. 2 25. 1-0416 Caution Decal 1 26. 1-0763 Deck Pad 2 27. 1-0740 Retaining Ring 2 28. 4-0273 Spindle Housing 1 29. 1-0696 Bearing 2 30. 1-0121 Shim Washer 1 31. 2-0055 Spacer Washer 1 32. 2-1001 Shoulder Nut 1 33. 1-8038 Cutter Bar 1 34. 1-0741 Tolerance Ring 1 35. 4-7243 Deck Structure 1 36. 1-0546 Hair Pin 1 37. 2-0882 Support Rod 1 38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 50. S-90278 Jam Nut, <sup>5</sup> / <sub>8</sub> -18 1 51. S-90222 5/16-24 Lock Nut 1		2-0881		2
23.		2-0878		
24. 5-0009 Bearing Assy. 2 25. 1-0416 Caution Decal 1 26. 1-0763 Deck Pad 2 27. 1-0740 Retaining Ring 2 28. 4-0273 Spindle Housing 1 29. 1-0696 Bearing 2 30. 1-0121 Shim Washer 1 31. 2-0055 Spacer Washer 1 32. 2-1001 Shoulder Nut 1 33. 1-8038 Cutter Bar 1 34. 1-0741 Tolerance Ring 1 35. 4-7243 Deck Structure 1 36. 1-0546 Hair Pin 1 37. 2-0882 Support Rod 1 38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, \( \frac{5}{8}\$-18 1 51. S-90222 5/16-24 Lock Nut	22.	4-0275	Cam Structure, R. H.	
28.		4-0274	Cam Structure, L. H. (Not Shown)	
28.		5-0009	Bearing Assy.	2
28.	25.	1-0416	Caution Decal	1
28.		1-0763	Deck Pad	2
29. 1-0696 Bearing 2 30. 1-0121 Shim Washer 1 31. 2-0055 Spacer Washer 1 32. 2-1001 Shoulder Nut 1 33. 1-8038 Cutter Bar 1 34. 1-0741 Tolerance Ring 1 35. 4-7243 Deck Structure 1 36. 1-0546 Hair Pin 1 37. 2-0882 Support Rod 1 38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1 51. S-90222 5/16-24 Lock Nut 1		1-0740	Retaining Ring	
30. 1-0121 Shim Washer 1 31. 2-0055 Spacer Washer 1 32. 2-1001 Shoulder Nut 1 33. 1-8038 Cutter Bar 1 34. 1-0741 Tolerance Ring 1 35. 4-7243 Deck Structure 1 36. 1-0546 Hair Pin 1 37. 2-0882 Support Rod 1 38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1 51. S-90222 5/16-24 Lock Nut 1	28.	4-0273	Spindle Housing	1
31. 2-0055 Spacer Washer  32. 2-1001 Shoulder Nut  33. 1-8038 Cutter Bar  34. 1-0741 Tolerance Ring  35. 4-7243 Deck Structure  36. 1-0546 Hair Pin  37. 2-0882 Support Rod  38. 1-0739 Retaining Ring  39. 4-7244 Front Lift Arm  40. 2-0877 Timing Rod  41. 4-7254 Idler Handle  42. 1-0750 Spring  43. 2-0880 Idler Link  44. 1-0681 Grip  45. 2-7184 Spindle  46. 1-0023 Spring  47. 2-0879 Anchor  48. 1-0817 Alemite Fitting  50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \)  51. S-90222 5/16-24 Lock Nut	29.	1-0696	Bearing	
32. 2-1001 Shoulder Nut  33. 1-8038 Cutter Bar  34. 1-0741 Tolerance Ring  35. 4-7243 Deck Structure  36. 1-0546 Hair Pin  37. 2-0882 Support Rod  38. 1-0739 Retaining Ring  7  39. 4-7244 Front Lift Arm  10. 2-0877 Timing Rod  41. 4-7254 Idler Handle  42. 1-0750 Spring  43. 2-0880 Idler Link  44. 1-0681 Grip  45. 2-7184 Spindle  46. 1-0023 Spring  47. 2-0879 Anchor  48. 1-0817 Alemite Fitting  50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \)  51. S-90222 5/16-24 Lock Nut	30.	1-0121	Shim Washer	1
32. 2-1001 Shoulder Nut  33. 1-8038 Cutter Bar  34. 1-0741 Tolerance Ring  35. 4-7243 Deck Structure  36. 1-0546 Hair Pin  37. 2-0882 Support Rod  38. 1-0739 Retaining Ring  7  39. 4-7244 Front Lift Arm  10. 2-0877 Timing Rod  41. 4-7254 Idler Handle  42. 1-0750 Spring  43. 2-0880 Idler Link  44. 1-0681 Grip  45. 2-7184 Spindle  46. 1-0023 Spring  47. 2-0879 Anchor  48. 1-0817 Alemite Fitting  50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \)  51. S-90222 5/16-24 Lock Nut	31.	2-0055	Spacer Washer	1
34. 1-0741 Tolerance Ring 1 35. 4-7243 Deck Structure 1 36. 1-0546 Hair Pin 1 37. 2-0882 Support Rod 1 38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 50. S-90278 Jam Nut, 5/8-18 1 51. S-90222 5/16-24 Lock Nut	32.	2-1001	Shoulder Nut	1
35. 4-7243 Deck Structure 1  36. 1-0546 Hair Pin 1  37. 2-0882 Support Rod 1  38. 1-0739 Retaining Ring 7  39. 4-7244 Front Lift Arm 1  40. 2-0877 Timing Rod 1  41. 4-7254 Idler Handle 1  42. 1-0750 Spring 1  43. 2-0880 Idler Link 1  44. 1-0681 Grip 1  45. 2-7184 Spindle 1  46. 1-0023 Spring 1  47. 2-0879 Anchor 1  48. 1-0817 Alemite Fitting 1  50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1  51. S-90222 5/16-24 Lock Nut 1	33.		Cutter Bar	1
36. 1-0546 Hair Pin 1 37. 2-0882 Support Rod 1 38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1 51. S-90222 5/16-24 Lock Nut 1	34.	1-0741	Tolerance Ring	1
36. 1-0546 Hair Pin 1 37. 2-0882 Support Rod 1 38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1 51. S-90222 5/16-24 Lock Nut	35.	4-7243	Deck Structure	1 .
38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1 51. S-90222 5/16-24 Lock Nut 1	36.	1-0546	Hair Pin	1
38. 1-0739 Retaining Ring 7 39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1 51. S-90222 5/16-24 Lock Nut	37.	2-0882	Support Rod	
39. 4-7244 Front Lift Arm 1 40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 50. S-90278 Jam Nut, \(5\)8-18 1 51. S-90222 5/16-24 Lock Nut	38.	1-0739		7
40. 2-0877 Timing Rod 1 41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1 51. S-90222 5/16-24 Lock Nut 1	39.		Front Lift Arm	
41. 4-7254 Idler Handle 1 42. 1-0750 Spring 1 43. 2-0880 Idler Link 1 44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, \( \frac{5}{8} - 18 \) 1 51. S-90222 5/16-24 Lock Nut 1	40.	2-0877	Timing Rod	
43. 2-0880 Idler Link 1  44. 1-0681 Grip 1  45. 2-7184 Spindle 1  46. 1-0023 Spring 1  47. 2-0879 Anchor 1  48. 1-0817 Alemite Fitting 1  49. 1-0808 Spring 1  50. S-90278 Jam Nut, 5/8-18 1  51. S-90222 5/16-24 Lock Nut 1	41.	4-7254		
43. 2-0880 Idler Link 1  44. 1-0681 Grip 1  45. 2-7184 Spindle 1  46. 1-0023 Spring 1  47. 2-0879 Anchor 1  48. 1-0817 Alemite Fitting 1  49. 1-0808 Spring 1  50. S-90278 Jam Nut, 5/8-18 1  51. S-90222 5/16-24 Lock Nut 1	42.	1-0750	Spring	
44. 1-0681 Grip 1 45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, 5/8-18 1 51. S-90222 5/16-24 Lock Nut 1	43.	2-0880		
45. 2-7184 Spindle 1 46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, 5/8-18 1 51. S-90222 5/16-24 Lock Nut 1				
46. 1-0023 Spring 1 47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, 5/8-18 1 51. S-90222 5/16-24 Lock Nut 1				
47. 2-0879 Anchor 1 48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, 5/8-18 1 51. S-90222 5/16-24 Lock Nut 1				
48. 1-0817 Alemite Fitting 1 49. 1-0808 Spring 1 50. S-90278 Jam Nut, 5/8-18 1 51. S-90222 5/16-24 Lock Nut 1				
49. 1-0808 Spring 1 50. S-90278 Jam Nut, 5/8-18 1 51. S-90222 5/16-24 Lock Nut 1				
50. S-90278 Jam Nut, 5/8-18 1 51. S-90222 5/16-24 Lock Nut 1				<del>-</del>
51. S-90222 5/16-24 Lock Nut 1				-



# Rear Wheels, Transmission and Variable Speed Drive

No. Req.	1
aring Screw	Sintered Bearing, 7/8"  Wheel Drum 2 552492 Short 64-66  Wheel Assy.  1-0533 Rim  1-0524 Tire  1-0525 Tube  1-0189 Valve Cap  Hub Cap  Washer  5 5/8-18 Slotted Nut  1 1/8 x1 Cotter Pin  Hex Head Cap Screw  Alemite Fitting  6 1/2-20 Hex Lock Nut  Wheel Pinion, 10T, 8P  Retaining Ring  Bearing  Seal  Differential  Wavy Washer  Tolerance Ring  Bearing  Strap  Case Structure  Cover  Brake Band Assy., R-H: C-H,  Brake Band Assy., L-H. R-H,  Brake Band Assy., L-H. R-H.  Brake Band Assy., L-H. R-H.  Brake Band Assy., L-H.
Part No. 5-0169 2-0914 2-0945 2-0948 1-0807 1-0874 2-0917 5-0186 S-90168 2-1062 1-0753	1-0755 2-7182 5-0116 1-0 1-0 1-0762 2-0944 5-90295 5-90296 2-0918 1-0864 1-0864 1-0864 1-0864 1-0864 2-1050 4-9535 3-0996 1-0869 3-0007 1-0153 3-0998
15 4 45. 45. 48. 50. 51. 52. 55. 55. 55.	86.00 1.000
No. Req.	1860 = 18
Retaining Ring Grip Yoke Shift Roller Flip Grommet Shift Link Shift Detent Spring Shift Handle Shaft 3/8-24 Hex Nut 3/8 Split Lock Washer Washer	1/2 n Nut sher t t t sar Assy. Ring
Part No. 1-0776 1-0838 4-0324 2-0908 1-0743 3-0974 3-7212 1-0754 4-0281 S-90155 S-90177 1-0760 2-0937	
₹	24.7.5.1.0.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2

